



PCT10

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/070,337

DATE: 03/21/2002

TIME: 14:56:42

Input Set : A:\ippf0742usn.app.txt
 Output Set: N:\CRF3\03212002\J070337.raw

5 <110> APPLICANT: INCYTE GENOMICS, INC.
 6 YUE, Henry
 7 TANG, Y. Tom
 8 BANDMAN, Olga
 9 HILLMAN, Jennifer L.
 10 BAUGHN, Mariah R.
 11 AZIMZAI, Yalda
 12 LU, Duyng Aina M.
 14 <120> TITLE OF INVENTION: PROTEIN PHOSPHATASE AND KINASE PROTEINS
 16 <130> FILE REFERENCE: PP-0742 PCT
 C--> 18 <140> CURRENT APPLICATION NUMBER: US/10/070,337
 C--> 19 <141> CURRENT FILING DATE: 2002-02-27
 21 <150> PRIOR APPLICATION NUMBER: 60/154,141
 22 <151> PRIOR FILING DATE: 1999-09-15
 24 <160> NUMBER OF SEQ ID NOS: 22
 26 <170> SOFTWARE: PERL Program
 28 <210> SEQ ID NO: 1
 29 <211> LENGTH: 329
 30 <212> TYPE: PRT
 31 <213> ORGANISM: Homo sapiens
 33 <220> FEATURE:
 34 <221> NAME/KEY: misc_feature
 35 <223> OTHER INFORMATION: Incyte ID NO: 365665CD1
 37 <400> SEQUENCE: 1
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 39 1 5 10 15
 40 Leu Lys Ser Pro Ala Phe Ser Ser Gly Ser Ser Glu Gly Asp Ser
 41 20 25 30
 42 Pro Trp Ser Tyr Leu Asn Ser Ser Gly Ser Ser Trp Val Ser Leu
 43 35 40 45
 44 Pro Gly Lys Met Arg Lys Glu Ile Leu Glu Ala Arg Thr Leu Gln
 45 50 55 60
 46 Pro Asp Asp Phe Glu Lys Leu Leu Ala Gly Val Arg His Asp Trp
 47 65 70 75
 48 Leu Phe Gln Arg Leu Glu Asn Thr Gly Val Phe Lys Pro Ser Gln
 49 80 85 90
 50 Leu His Arg Ala His Ser Ala Leu Leu Leu Lys Tyr Ser Lys Lys
 51 95 100 105
 52 Ser Glu Leu Trp Thr Ala Gln Glu Thr Ile Val Tyr Leu Gly Asp
 53 110 115 120
 54 Tyr Leu Thr Val Lys Lys Lys Gly Arg Gln Arg Asn Ala Phe Trp
 55 125 130 135
 56 Val His His Leu His Gln Glu Glu Ile Leu Gly Arg Tyr Val Gly

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57	140	145	150
58	Lys Asp Tyr Lys Glu Gln Lys Gly Leu Trp His His Phe Thr Asp		
59	155	160	165
60	Val Glu Arg Gln Met Thr Ala Gln His Tyr Val Thr Glu Phe Asn		
61	170	175	180
62	Lys Arg Leu Tyr Glu Gln Asn Ile Pro Thr Gln Ile Phe Tyr Ile		
63	185	190	195
64	Pro Ser Thr Ile Leu Ile Leu Glu Asp Lys Thr Ile Lys Gly		
65	200	205	210
66	Cys Ile Ser Val Glu Pro Tyr Ile Leu Gly Glu Phe Val Lys Leu		
67	215	220	225
68	Ser Asn Asn Thr Lys Val Val Lys Thr Glu Tyr Lys Ala Thr Glu		
69	230	235	240
70	Tyr Gly Leu Ala Tyr Gly His Phe Ser Tyr Glu Phe Ser Asn His		
71	245	250	255
72	Arg Asp Val Val Val Asp Leu Gln Gly Trp Val Thr Gly Asn Gly		
73	260	265	270
74	Lys Gly Leu Ile Tyr Leu Thr Asp Pro Gln Ile His Ser Val Asp		
75	275	280	285
76	Gln Lys Val Phe Thr Thr Asn Phe Gly Lys Arg Gly Ile Phe Tyr		
77	290	295	300
78	Phe Phe Asn Asn Gln His Val Glu Cys Asn Glu Ile Cys His Arg		
79	305	310	315
80	Leu Ser Leu Thr Arg Pro Ser Met Glu Lys Pro Cys Lys Ser		
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87	<211> LENGTH: 141		
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98	Pro Phe Leu His Ile Leu Glu Ser Asn Leu Leu Lys Ala Met Asp		
99	20 25 30		
100	Ser Ala Thr Ala Pro Asp Lys Ile Arg Lys Leu Tyr Leu Tyr Ala		
101	35 40 45		
102	Ala His Asp Val Thr Phe Ile Pro Leu Leu Met Thr Leu Gly Ile		
103	50 55 60		
104	Phe Asp His Lys Trp Pro Pro Phe Ala Val Asp Leu Thr Met Glu		
105	65 70 75		
106	Leu Tyr Gln His Leu Glu Ser Lys Glu Trp Phe Val Gln Leu Tyr		
107	80 85 90		
108	Tyr His Gly Lys Glu Gln Val Pro Arg Gly Cys Pro Asp Gly Leu		
109	95 100 105		
110	Cys Pro Leu Asp Met Phe Leu Asn Ala Met Ser Val Tyr Thr Leu		
111	110 115 120		

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112 Ser Pro Glu Lys Tyr His Ala Leu Cys Ser Gln Thr Gln Val Met
 113 125 130 135
 114 Glu Val Gly Asn Glu Glu
 115 140
 120 <210> SEQ ID NO: 3
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 125 <220> FEATURE:
 126 <221> NAME/KEY: misc_feature
 127 <223> OTHER INFORMATION: Incyte ID NO: 926043CD1
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 132 Arg Asp His Ser Tyr Val Thr Glu Ala Asp Ile Phe Ser Thr Val
 133 20 25 30
 134 Glu Phe Asn His Thr Gly Glu Leu Leu Ala Thr Gly Asp Lys Gly
 135 35 40 45
 136 Gly Arg Val Val Ile Phe Gln Arg Glu Pro Glu Ser Lys Asn Ala
 137 50 55 60
 138 Pro His Ser Gln Gly Glu Tyr Asp Val Tyr Ser Thr Phe Gln Ser
 139 65 70 75
 140 His Glu Pro Glu Phe Asp Tyr Leu Lys Ser Leu Glu Ile Glu Glu
 141 80 85 90
 142 Lys Ile Asn Lys Ile Lys Trp Leu Pro Gln Gln Asn Ala Ala His
 143 95 100 105
 144 Ser Leu Leu Ser Thr Asn Asp Lys Thr Ile Lys Leu Trp Lys Ile
 145 110 115 120
 146 Thr Glu Arg Asp Lys Arg Pro Glu Gly Tyr Asn Leu Lys Asp Glu
 147 125 130 135
 148 Glu Gly Lys Leu Lys Asp Leu Ser Thr Val Thr Ser Leu Gln Val
 149 140 145 150
 150 Pro Val Leu Lys Pro Met Asp Leu Met Val Glu Val Ser Pro Arg
 151 155 160 165
 152 Arg Ile Phe Ala Asn Gly His Thr Tyr His Ile Asn Ser Ile Ser
 153 170 175 180
 154 Val Asn Ser Asp Cys Glu Thr Tyr Met Ser Ala Asp Asp Leu Arg
 155 185 190 195
 156 Ile Asn Leu Trp His Leu Ala Ile Thr Asp Arg Ser Phe Asn Ile
 157 200 205 210
 158 Val Asp Ile Lys Pro Ala Asn Met Glu Asp Leu Thr Glu Val Ile
 159 215 220 225
 160 Thr Ala Ser Glu Phe His Pro His His Cys Asn Leu Phe Val Tyr
 161 230 235 240
 162 Ser Ser Ser Lys Gly Ser Leu Arg Leu Cys Asp Met Arg Ala Ala
 163 245 250 255
 164 Ala Leu Cys Asp Lys His Ser Lys Leu Phe Glu Glu Pro Glu Asp
 165 260 265 270
 166 Pro Ser Asn Arg Ser Phe Phe Ser Glu Ile Ile Ser Ser Val Ser

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167	275	280	285
168	Asp Val Lys Phe Ser His Ser Gly Arg	Tyr Met Leu Thr Arg Asp	
169	290	295	300
170	Tyr Leu Thr Val Lys Val Trp Asp Leu	Asn Met Glu Ala Arg Pro	
171	305	310	315
172	Ile Glu Thr Tyr Gln Val His Asp Tyr	Leu Arg Ser Lys Leu Cys	
173	320	325	330
174	Ser Leu Tyr Glu Asn Asp Cys Ile Phe	Asp Lys Phe Glu Cys Ala	
175	335	340	345
176	Trp Asn Gly Ser Asp Ser Val Ile Met	Thr Gly Ala Tyr Asn Asn	
177	350	355	360
178	Phe Phe Arg Met Phe Asp Arg Asn Thr	Lys Arg Asp Val Thr Leu	
179	365	370	375
180	Glu Ala Ser Arg Glu Ser Ser Lys Pro	Arg Ala Val Leu Lys Pro	
181	380	385	390
182	Arg Arg Val Cys Val Gly Gly Lys Arg	Arg Arg Asp Asp Ile Ser	
183	395	400	405
184	Val Asp Ser Leu Asp Phe Thr Lys Lys	Ile Leu His Thr Ala Trp	
185	410	415	420
186	His Pro Ala Glu Asn Ile Ile Ala Ile	Ala Ala Thr Asn Asn Leu	
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195	<211> LENGTH: 666		
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201	<223> OTHER INFORMATION: Incyte ID NO: 1234795CD1		
203	<400> SEQUENCE: 4		
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205	1 5 10 15		
206	Val Ala Leu Leu Glu Ser Gly Thr Glu Lys Val Leu Leu Ile Asp		
207	20 25 30		
208	Ser Arg Pro Phe Val Glu Tyr Asn Thr Ser His Ile Leu Glu Ala		
209	35 40 45		
210	Ile Asn Ile Asn Cys Ser Lys Leu Met Lys Arg Arg Leu Gln Gln		
211	50 55 60		
212	Asp Lys Val Leu Ile Thr Glu Leu Ile Gln His Ser Ala Lys His		
213	65 70 75		
214	Lys Val Asp Ile Asp Cys Ser Gln Lys Val Val Val Tyr Asp Gln		
215	80 85 90		
216	Ser Ser Gln Asp Val Ala Ser Leu Ser Ser Asp Cys Phe Leu Thr		
217	95 100 105		
218	Val Leu Leu Gly Lys Leu Glu Lys Ser Phe Asn Ser Val His Leu		
219	110 115 120		
220	Leu Ala Gly Gly Phe Ala Glu Phe Ser Arg Cys Phe Pro Gly Leu		
221	125 130 135		

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322 Cys Glu Gly Lys Ser Thr Leu Val Pro Thr Cys Ile Ser Gln Pro
 323 140 145 150
 324 Cys Leu Pro Val Ala Asn Ile Gly Pro Thr Arg Ile Leu Pro Asn
 325 155 160 165
 326 Leu Tyr Leu Gly Cys Gln Arg Asp Val Leu Asn Lys Glu Leu Met
 327 170 175 180
 328 Gln Gln Asn Gly Ile Gly Tyr Val Leu Asn Ala Ser Asn Thr Cys
 329 185 190 195
 330 Pro Lys Pro Asp Phe Ile Pro Glu Ser His Phe Leu Arg Val Pro
 331 200 205 210
 332 Val Asn Asp Ser Phe Cys Glu Lys Ile Leu Pro Trp Leu Asp Lys
 333 215 220 225
 334 Ser Val Asp Phe Ile Glu Lys Ala Lys Ala Ser Asn Gly Cys Val
 335 230 235 240
 336 Leu Val His Cys Leu Ala Gly Ile Ser Arg Ser Ala Thr Ile Ala
 337 245 250 255
 338 Ile Ala Tyr Ile Met Lys Arg Met Asp Met Ser Leu Asp Glu Ala
 339 260 265 270
 340 Tyr Arg Phe Val Lys Glu Lys Arg Pro Thr Ile Ser Pro Asn Phe
 341 275 280 285
 342 Asn Phe Leu Gly Gln Leu Leu Asp Tyr Glu Lys Lys Ile Lys Asn
 343 290 295 300
 344 Gln Thr Gly Ala Ser Gly Pro Lys Ser Lys Leu Lys Leu Leu His
 345 305 310 315
 346 Leu Glu Lys Pro Asn Glu Pro Val Pro Ala Val Ser Glu Gly Gly
 347 320 325 330
 348 Gln Lys Ser Glu Thr Pro Leu Ser Pro Pro Cys Ala Asp Ser Ala
 349 335 340 345
 350 Thr Ser Glu Ala Ala Gly Gln Arg Pro Val His Pro Ala Ser Val
 351 350 355 360
 352 Pro Ser Val Pro Ser Val Gln Pro Ser Leu Leu Glu Asp Ser Pro
 353 365 370 375
 354 Leu Val Gln Ala Leu Ser Gly Leu His Leu Ser Ala Asp Arg Leu
 355 380 385 390
 356 Glu Asp Ser Asn Lys Leu Lys Arg Ser Phe Ser Leu Asp Ile Lys
 357 395 400 405
 358 Ser Val Ser Tyr Ser Ala Ser Met Ala Ala Ser Leu His Gly Phe
 359 410 415 420
 360 Ser Ser Ser Glu Asp Ala Leu Glu Tyr Tyr Lys Pro Ser Thr Thr
 361 425 430 435
 362 Leu Asp Gly Thr Asn Lys Leu Cys Gln Phe Ser Pro Val Gln Glu
 363 440 445 450
 364 Leu Ser Glu Gln Thr Pro Glu Thr Ser Ser Leu Ile Arg Arg Lys
 365 455 460 465
 366 Pro Ala Ser Pro Arg Ser Cys Arg Pro Pro Gly Leu Gln Thr Ala
 367 470 475 480
 368 Arg Ala Ser Asp Cys Ile Arg Ser Glu Pro Ala Ala Val Ala Pro
 369 485 490 495
 370 Pro Arg Gly Pro Phe Tyr Leu His Cys Ile Glu Val Gly Ala Trp

VERIFICATION SUMMARY DATE: 03/21/2002
PATENT APPLICATION: US/10/070,337 TIME: 14:56:43

Input Set : A:\ippf0742usn.app.txt
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L:18 M:270 C: Current Application Number differs, Replaced Current Application Number
L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date